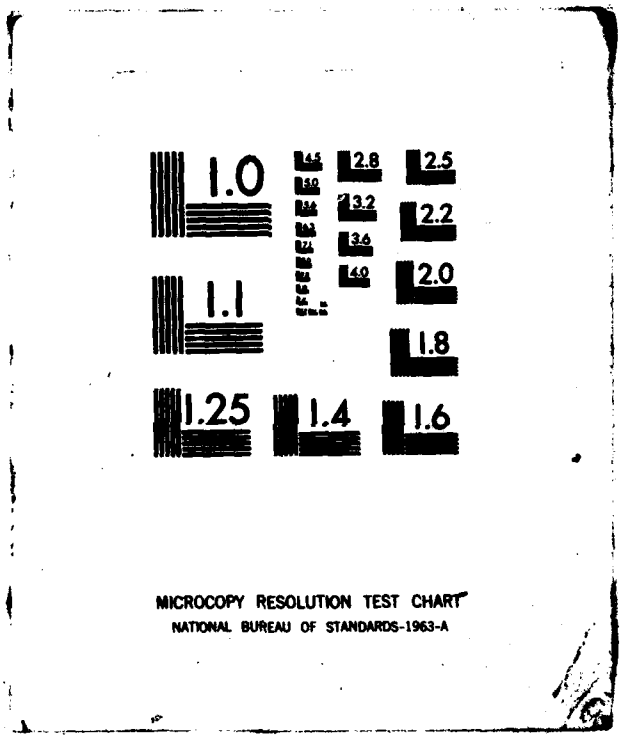
AD-A121 651 19314A MLRS MISSILE NUMBERS BC-101 BC-104 BC-106 ROUND 1/1
NUMBERS V-321/PQ-6.'(U) ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND WSMR NM ATM.. SEP 82
UNCLASSIFIED ERADCOM/ASL-DR-1259 F/G 4/2 NL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1.1
1.25
1.4
1.6
2.8
3.2
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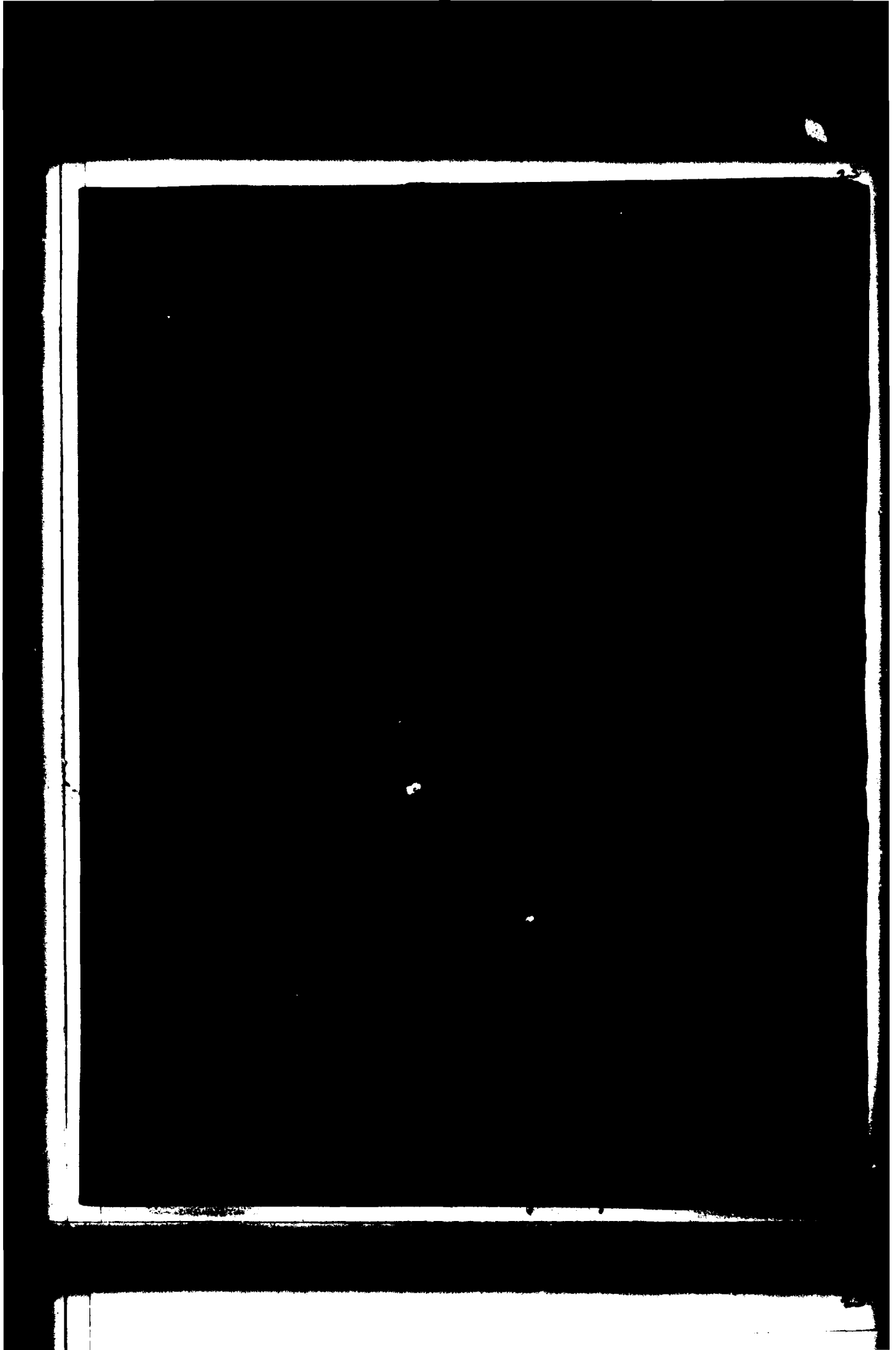
2.2
2.0
1.8
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)	
20. ABSTRACT (Continue on reverse side if necessary and identify by block number): Meteorological data gathered for the launching of the 19314A MLRS, Missile No. BC-101, BC-104, BC-106, Round Numbers V-321/PQ-61, V-322/PQ-62, V-323/PQ-63 presented in tabular form.	

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CONTENTS

INTRODUCTION

19314A MLRS, Missile Numbers BC-101, BC-104, and BC-106, Round Numbers V-321/PQ-61, V-322/PQ-62, and V-323/PQ-63, were launched from Deadhorse, White Sands Missile Range (WSMR), New Mexico, at 1635:02, 1635:07, and 1635:12 MDT, 17 September 1982. The scheduled launch times were 1330 MDT and 4.5 second separation.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3), wind direction and speed, and cloud cover were made at the Deadhorse Met Site at T-0 minutes.

(2) Anemometer data were provided from existing tower mounted anemometers at Deadhorse. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

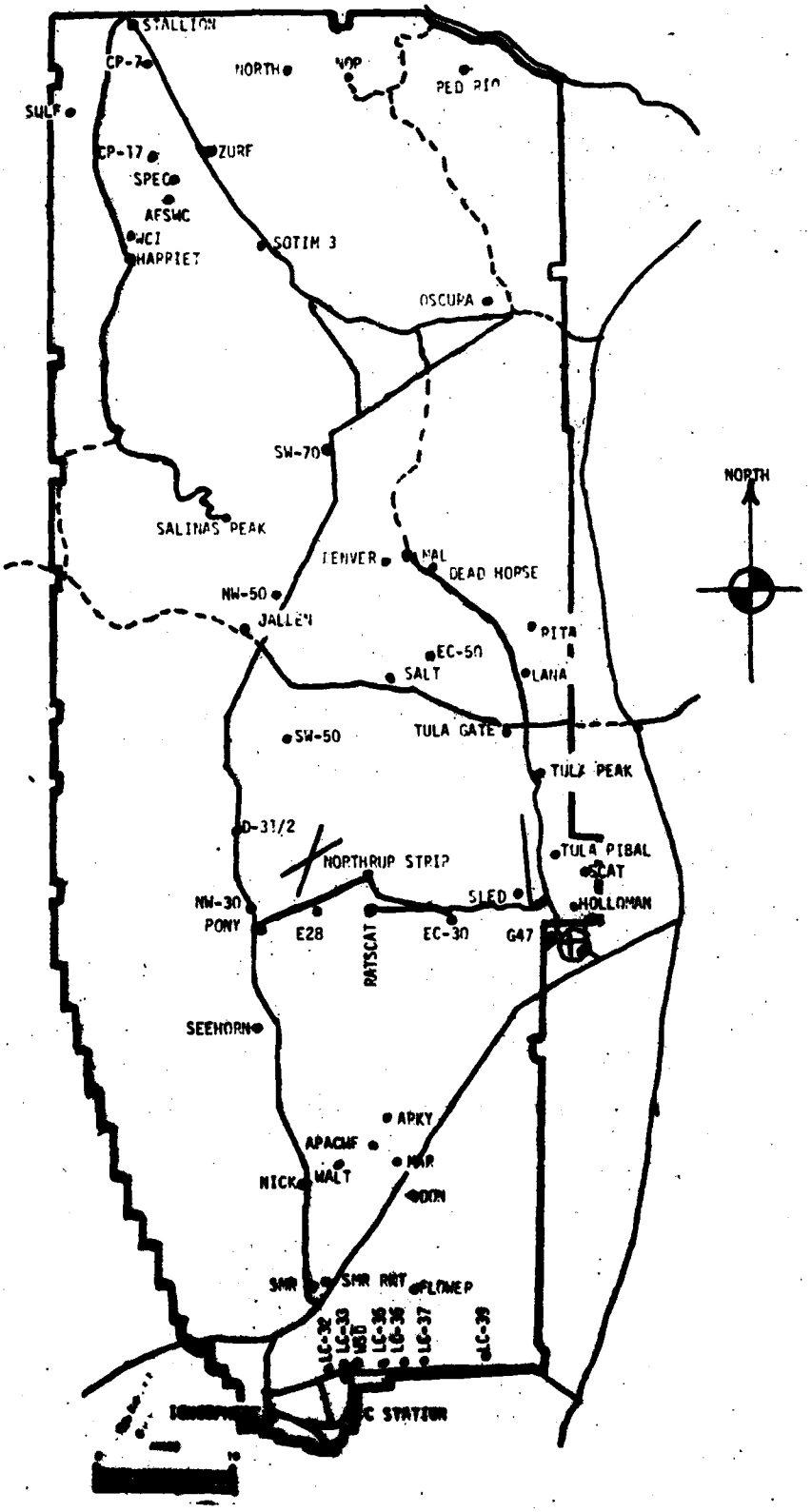
(1) Low level wind data were obtained from a single theodolite pilot-balloon observation at:

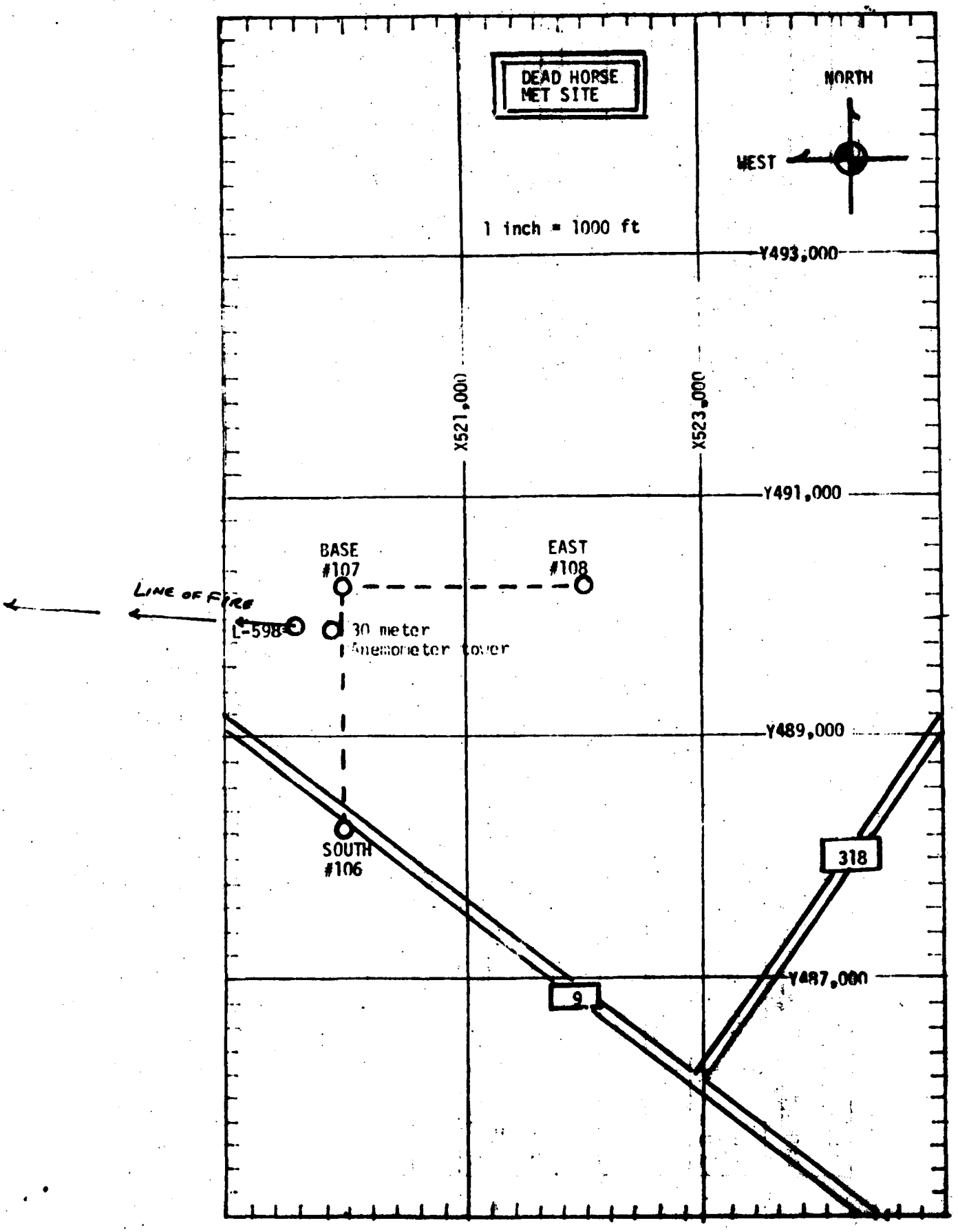
SITE AND ALTITUDE	
Deadhorse	2 Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME	
Rita	1345 MDT
Lana	1445 MDT
Rita	1515 MDT
Lana	1636 MDT

WSMR METEOROLOGICAL SITES




DEAD HORSE
MET SITE
NORTH
WEST
1 inch = 1000 ft
Y493,000
X521,000
X523,000
Y491,000
BASE
#107
EAST
#108
LINE OF FIRE
L-598
30 meter
Anemometer tower
Y489,000
SOUTH
#106
318
9
Y487,000

PROJECT SURFACE OBSERVATION

TABLE 1

STATION Deadhorse

DATE 17 (DAY) 09 (MONTH) 82 (YEAR)

X= 519,982.11 Y= 490,249.23 H= 4133.12

TIME MDT	PRESSURE mbs	TEMPERATURE °F	TEMPERATURE °C	DEW POINT °F	DEW POINT °C	RELATIVE HUMIDITY %	DENSITY gm/m³	WIND DIRECTION degs Tn	WIND SPEED kts	WIND CHARACTER kts	VISIBILITY
1615	875.0		30.0		14.1	38	1004	300	22		50
1635	874.8		30.2		15.1	40	1003	330	14		50

OBSTRUCTIONS TO VISIBILITY	CLOUDS 1st LAYER AMT	1st LAYER TYPE	1st LAYER HGT	2nd LAYER AMT	2nd LAYER TYPE	2nd LAYER HGT	3rd LAYER AMT	3rd LAYER TYPE	3rd LAYER HGT	REMARKS
	4	CU	4500	2	AC	12,000	3	C1	25,000	
	2	CU	4500	2	AC	12,000	4	C1	25,000	

PSYCHROMETRIC COMPUTATION

TIME: MDT	1615	1635	
DRY BULB TEMP.	30.0	30.2	
WET BULB TEMP.	19.2	19.8	
WET BULB DEPR.	10.8	10.4	
DEW POINT	14.1	15.1	
RELATIVE HUMID.	38	40	

TABLE 2

ANEMOMETER DATA
30 FOOT LEVEL OF 30 METER TOWER

X= 519,923.74 Y= 489,901.20 H= 4132.51 (BASE)

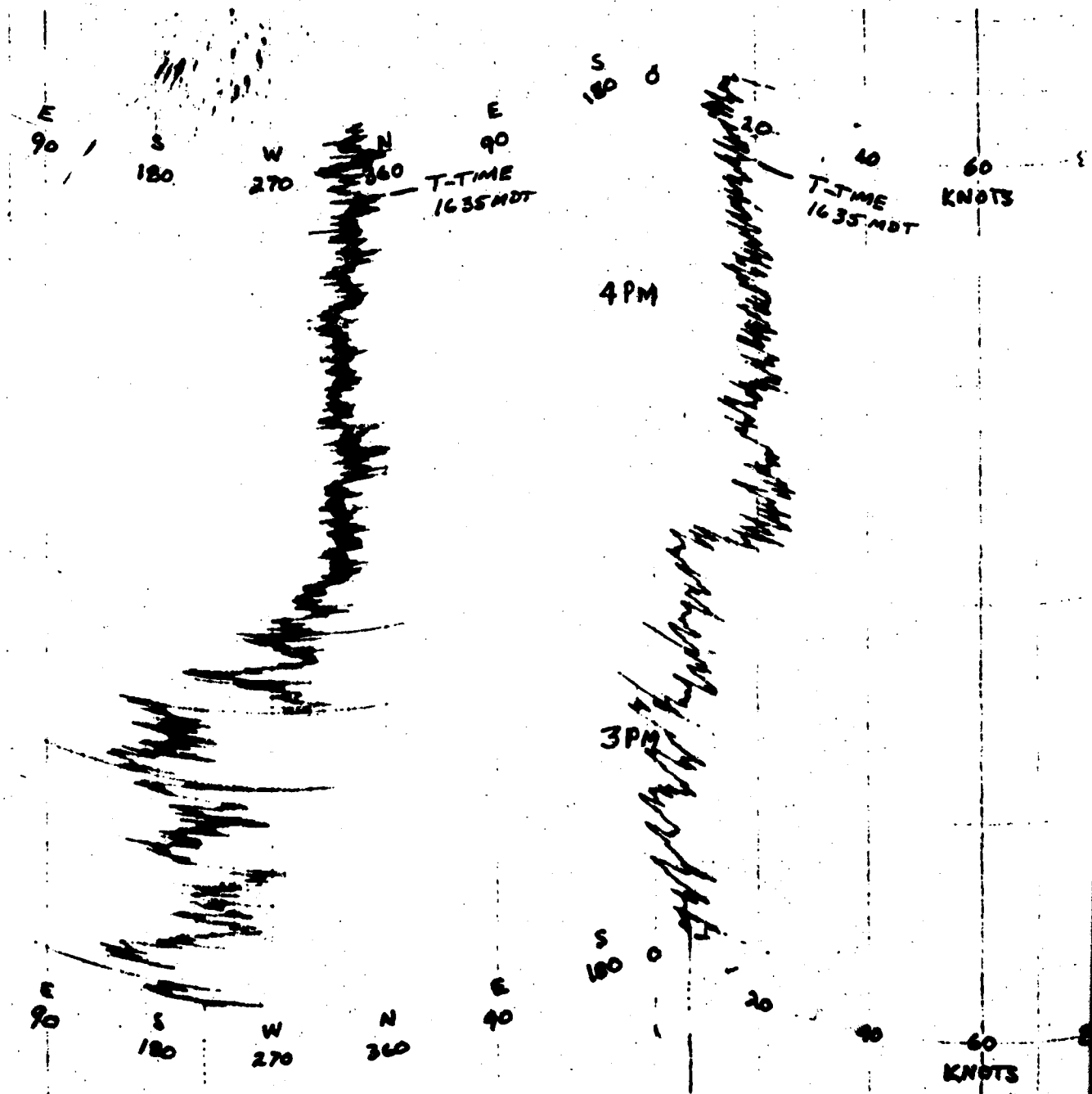


TABLE 3

ANEMOMETER DATA
60 FOOT LEVEL OF 30 METER TOWER

X= 519,923.74 Y= 489,901.20 M-4132.51 (BASE)

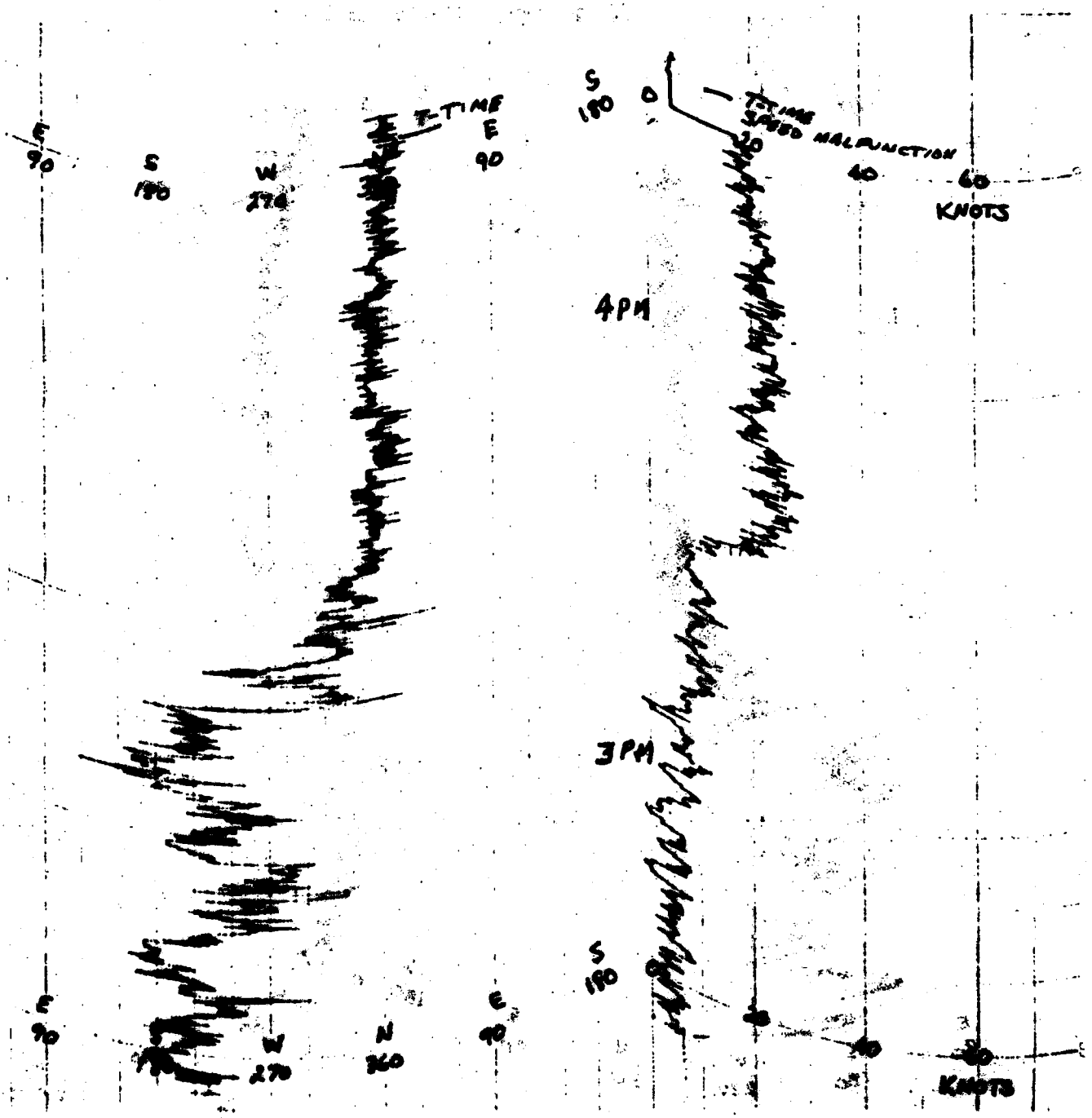


TABLE 4

ANEMOMETER DATA
90 FOOT LEVEL OF 30 METER TOWER

X= 519,923.74 Y= 489,901.20 H= 4132.51 (BASE)

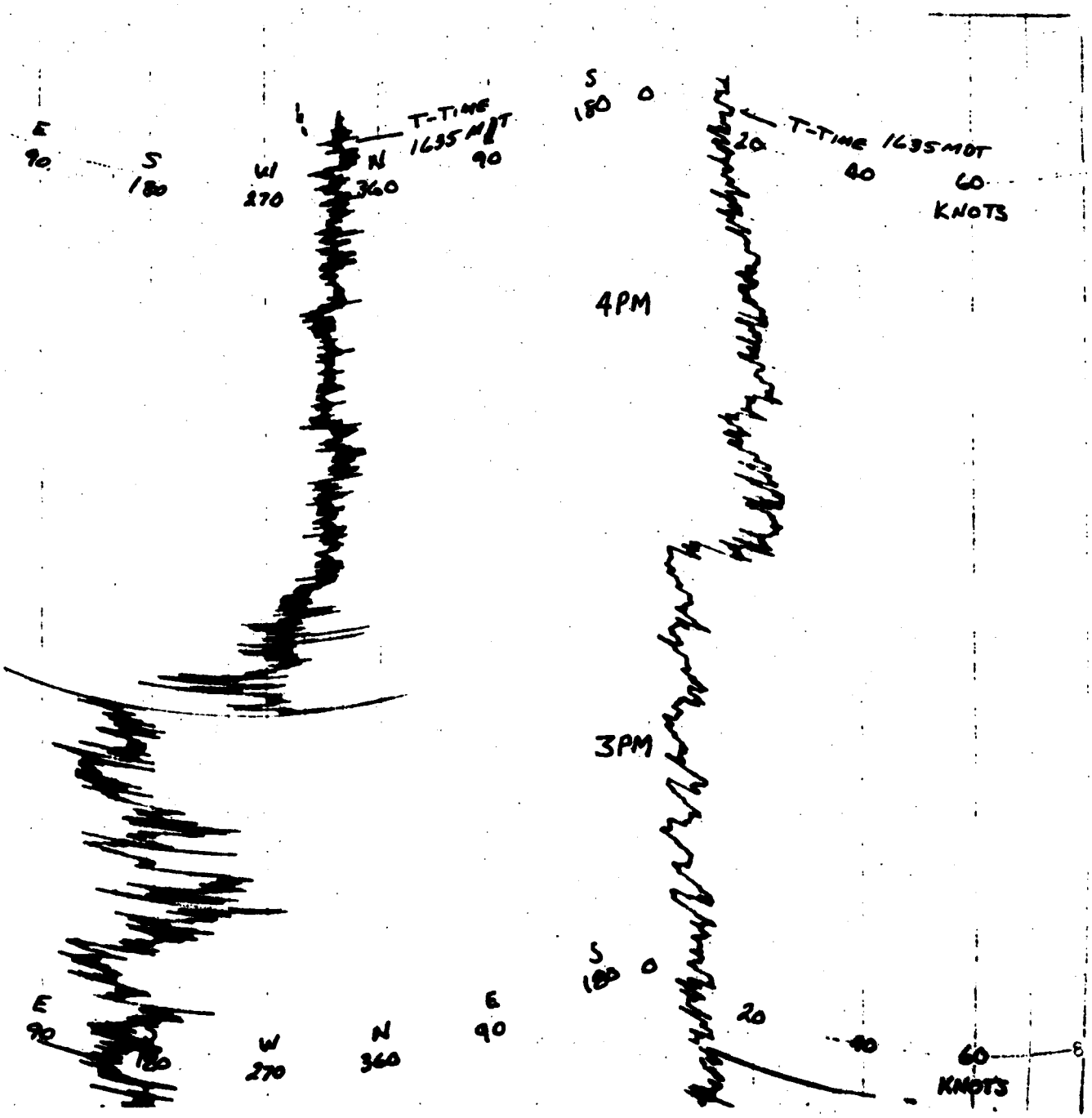


TABLE 5

T-TIME PILOT-BALLOON MEASURED WIND DATA
DATE 17 Sep 82

SITE: Deadhorse

TIME: 1635 MDT

WSTM COORDINATES:

X= 519,982.11

Y= 490,249.23

H= 4,133.12

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	330	14
150	310	17
210	307	17
270	309	15
330	311	14
390	310	12
500	303	10
650	280	06
800	228	05
950	191	02
1150	212	09
1350	224	13
1550	224	12
1750	215	13
2000	190	10

TABLE 6

AIMING AND T-TIME COMPUTER MET MESSAGES

17 Sep 82

RITA 1345 MDT

METCM1332062

171980128876

00356004 30550876

01357007 30320866

02324008 29990842

03347013 29630804

04329012 29150759

05365013 28780715

06380013 28390674

LANA 1445 MDT

METCM1331062

172080127873

00320005 30500873

01353010 30340864

02385008 30030840

03331010 29680802

04355012 29240757

05383011 28780714

06398010 28380672

RITA 1515 MDT

METCM1332062

172130128874

00302004 30550874

01394011 30420864

02425008 30130840

03427010 29740803

04392012 29270758

05374010 28830715

06394009 28400673

LANA 1636 MDT

METCM1331062

172260127872

00569005 30570872

01579010 30340862

02571009 30020838

03538010 29640801

04443006 29170756

05382009 28690712

06365011 28270671

SIGNIFICANT LEVEL DATA

STATION ALTITUDE 4186.74 FEET MSL
17 SEP. 82 1345 MDT
ASCENSION NO. 7

2600210007
RITA
TABLE 7

GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
875.7	4186.7	30.4	14.9	39.0
864.8	4553.2	27.4	13.4	42.0
850.0	5054.0	25.5	13.4	47.0
817.0	6193.5	22.5	12.4	53.0
749.4	8636.8	15.6	9.1	65.0
700.0	10529.8	11.9	6.2	68.0
668.7	11783.6	8.6	4.2	74.0
635.0	13185.3	5.9	.7	69.0

STATION ALTITUDE 4186.74 FEET MSL
17 SEP. 82 1345 MDT
ASCENSION NO. 7

UPPER AIR DATA
2600210007
RITA

TABLE 8

GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4186.7	875.7	30.4	14.9	39.0	997.0	661.2	200.0	4.1	1.000292
4500.0	864.4	27.8	13.6	41.0	985.9	678.2	197.1	5.3	1.000287
5000.0	851.6	25.7	13.4	46.5	985.9	675.8	194.5	7.3	1.000285
5500.0	836.9	24.3	13.0	49.3	973.4	674.2	193.0	9.3	1.000281
6000.0	822.5	23.0	12.6	52.0	961.0	672.7	192.7	11.0	1.000277
6500.0	808.2	21.6	12.1	54.5	948.6	671.1	194.1	11.9	1.000273
7000.0	794.0	20.2	11.4	57.0	936.8	669.4	191.9	11.8	1.000268
7500.0	780.1	18.8	10.7	59.4	925.0	667.8	187.3	11.2	1.000264
8000.0	766.5	17.4	10.0	61.9	913.4	666.1	186.8	12.3	1.000259
8500.0	753.0	16.0	9.3	64.3	902.0	664.4	187.3	13.3	1.000254
9000.0	739.7	14.9	8.5	65.6	889.5	663.1	191.6	14.0	1.000249
9500.0	726.5	13.9	7.8	66.9	876.7	661.9	196.4	14.4	1.000244
10000.0	713.5	12.9	7.0	67.2	864.2	660.7	204.5	13.4	1.000239
10500.0	700.8	12.0	6.2	68.0	851.8	659.5	211.5	12.7	1.000234
11000.0	688.1	10.7	5.5	70.3	840.4	657.9	215.9	12.2	1.000230
11500.0	675.7	9.3	4.7	72.6	829.2	656.4	217.5	11.7	1.000225
12000.0	663.4	8.2	3.7	73.2	817.7	654.9	216.9	11.1	1.000220
12500.0	651.3	7.2	2.4	71.4	805.8	653.7			1.000215
13000.0	639.4	6.3	1.1	69.7	794.0	652.5			1.000209

STATION ALTITUDE 4186.74 FEET MSL
17 SEP. 82 1345 MDT
ASCENSION NO. 7

MANDATORY LEVELS
260021000/
RITA

GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

TABLE 7

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	5051.	25.5	13.4	47.	194.3	7.5
800.0	6749.	20.8	11.7	56.	193.7	12.1
750.0	8607.	15.7	9.1	65.	188.3	13.4
700.0	10520.	11.9	6.2	68.	211.7	12.7
650.0	12541.	7.1	2.3	71.		

STATION ALTITUDE 4173.44 FEET MSL
17 SEP. 82 1445 MDT
ASCENSION NO. 8

SIGNIFICANT LEVEL DATA
2600320008
LANA

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

TABLE 10

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
873.4	4173.4	29.8	14.7	40.0
850.0	4465.2	25.5	16.1	56.0
829.4	5673.8	23.9	15.1	58.0
825.8	5799.0	23.4	15.2	60.0
738.4	8970.6	15.7	8.2	61.0
700.0	10452.6	11.7	5.8	67.0
660.0	12062.8	7.8	5.1	83.0
643.0	12769.9	6.4	1.5	71.0

STATION ALTITUDE 4173.44 FEET MSL
17 SEP. 82 1445 MDT
ASCENSION NO. 8

UPPER AIR DATA
260032000
LANA

TABLE 11

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4173.4	873.4	29.8	14.7	48.0	997.0	680.6	180.0	5.1	1.000292
4000.0	883.7	28.8	15.5	56.6	991.3	678.7	183.4	5.6	1.000295
5000.0	849.0	25.4	16.0	56.1	982.5	675.9	187.5	6.5	1.000297
5000.0	834.4	24.3	15.4	57.5	969.5	674.6	190.6	7.4	1.000291
6000.0	820.8	22.9	14.8	60.1	957.3	672.9	193.0	8.3	1.000286
6500.0	805.6	21.7	13.7	60.2	944.9	671.4	190.7	9.8	1.000279
7000.0	791.5	20.5	12.6	60.4	932.6	669.9	187.1	11.6	1.000272
7500.0	777.7	19.3	11.5	60.5	920.4	668.4	192.0	12.1	1.000265
8000.0	764.1	18.1	10.4	60.7	908.4	666.9	197.2	12.5	1.000259
8500.0	750.8	16.8	9.2	60.9	896.6	665.4	202.6	12.1	1.000252
9000.0	737.6	15.6	8.2	61.1	884.9	663.9	207.6	11.7	1.000247
9500.0	724.4	14.3	7.4	63.1	873.3	662.3	211.0	11.1	1.000242
10000.0	711.5	12.9	6.5	65.2	862.0	660.6	214.6	10.5	1.000237
10500.0	698.8	11.6	5.8	67.5	850.7	659.0	218.9	10.1	1.000233
11000.0	686.1	10.4	5.6	72.4	838.8	657.6	222.5	9.8	1.000230
11500.0	673.7	9.2	5.4	77.4	827.1	656.2	224.2	9.7	1.000227
12000.0	661.5	8.0	5.1	82.4	815.7	654.8			1.000224
12500.0	649.4	6.9	2.9	75.6	804.2	653.4			1.000216

STATION ALTITUDE 4173.44 FEET MSL
17 SEP. 82 1445 MDT
ASCENSION NO. 8

MANDATORY LEVELS
26003200006
LANA
TABLE 12

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	4962.	25.5	16.1	56.	187.2	6.4
800.0	6703.	21.2	15.2	68.	189.1	10.5
750.0	8527.	16.8	9.2	61.	202.9	12.1
700.0	10443.	11.7	5.6	67.	218.4	10.1
650.0	12464.	7.0	3.0	76.		

STATION ALTITUDE 4186.74 FEET MSL
17 SEP, 82 1515 MDT
RADIOSONDE NO. 8

SIGNIFICANT LEVEL DATA
260021000B
RITA

TABLE 13

GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
874.2	4186.7	30.5	13.7	36.0
850.0	5007.5	27.1	12.7	41.0
804.6	6590.3	22.3	11.1	49.0
756.8	8327.8	17.7	8.3	54.0
700.0	10502.0	12.2	5.6	64.0
656.2	12270.3	7.4	4.4	81.0
629.6	13387.4	4.8	.2	72.0

UPPER AIR DATA
2600210008
RITA

TABLE 14

STATION ALTITUDE 4186.74 FEET MSL
17 SEP. 82 1515 MDT
ASCENSION NO. 8

GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4186.7	874.2	30.5	13.7	36.0	996.1	681.2	170.0	4.1	1.000287
4500.0	864.9	29.2	13.4	37.9	989.8	679.7	185.7	4.2	1.000284
5000.0	850.2	27.1	12.7	41.0	979.9	677.3	206.4	5.0	1.000280
5500.0	835.6	25.6	12.3	43.5	968.1	675.6	220.3	6.2	1.000276
6000.0	821.2	24.1	11.8	46.0	956.4	673.8	229.3	7.6	1.000272
6500.0	807.1	22.6	11.2	48.5	944.9	672.0	235.3	9.2	1.000268
7000.0	793.1	21.2	10.4	50.2	932.9	670.4	236.5	10.4	1.000263
7500.0	779.2	19.9	9.6	51.6	920.9	668.8	232.3	10.8	1.000258
8000.0	765.6	18.6	8.8	53.1	909.1	667.3	225.4	10.9	1.000253
8500.0	752.1	17.3	8.1	54.8	897.3	665.7	215.0	10.8	1.000249
9000.0	738.8	16.0	7.5	57.1	885.3	664.2	210.6	10.6	1.000244
9500.0	725.6	14.7	6.9	59.4	873.5	662.7	208.6	10.2	1.000240
10000.0	712.7	13.5	6.3	61.7	861.9	661.2	213.4	9.9	1.000236
10500.0	700.1	12.2	5.6	64.0	850.4	659.7	218.0	9.7	1.000232
11000.0	687.4	10.8	5.4	68.8	839.0	658.1	221.0	10.0	1.000229
11500.0	674.9	9.5	5.0	73.6	827.8	656.6	221.5	9.9	1.000226
12000.0	662.7	8.1	4.6	78.4	816.8	655.0	219.4	9.6	1.000223
12500.0	650.6	6.9	3.5	79.1	805.8	653.4			1.000218
13000.0	638.7	5.7	1.6	75.1	794.7	651.9			1.000211

STATION ALTITUDE 4186.74 FEET MSL
17 SEP. 82 1515 MDT
ASCENSION NO. 8

MANDATORY LEVELS
260021008
RITA
TABLE 15

GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	5004.	27.1	12.7	41.	206.6	5.0
800.0	6749.	21.9	10.8	49.	237.6	10.0
750.0	8574.	17.1	8.0	55.	213.3	10.9
700.0	10492.	12.2	5.0	64.	218.0	9.7
650.0	12515.	6.8	3.4	79.		

STATION ALTITUDE 4173.44 FEET MSL
17 SEP. 82 1636 MDT
ASCENSION NO. 9

SIGNIFICANT LEVEL DATA
2600320009
LANA

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

TABLE 16

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT
872.1	4173.4	30.5	13.3	35.0
862.1	4510.8	27.4	13.0	41.0
850.0	4921.3	26.2	13.0	44.0
781.0	7346.9	19.4	10.1	55.0
700.0	10401.6	11.0	5.5	69.0
686.8	10923.8	9.9	5.3	73.0
655.2	12204.9	6.3	3.6	83.0
646.6	12561.5	5.8	2.4	79.0

[redacted] ALTITUDE 4173.44 FEET MSL
[redacted] 1636 MDT
[redacted] NO. 9

UPPER AIR DATA
2600320009
LANA
TABLE 17

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

[redacted]	PRESSURE	TEMPERATURE		REL. HUM.	DENSITY	SPEED OF	WIND DATA		INDEX
		AIR	DEWPOINT		GM/CUBIC	SOUND	DIRECTION	SPEED	OF
[redacted]	MILLIBARS	DEGREES CENTIGRADE		PERCENT	METER	KNOTS	DEGREES(TN)	KNOTS	REFRACTION
[redacted]	872.1	[redacted]	13.3	35.0	993.9	681.1	320.0	5.1	1.000284
[redacted]	862.8	27.5	13.0	40.8	992.7	677.7	316.4	5.8	1.000284
[redacted]	847.7	26.0	12.9	44.4	980.6	676.0	312.5	7.1	1.000282
[redacted]	833.0	24.6	12.4	46.6	968.3	674.4	309.7	8.3	1.000277
[redacted]	818.6	23.2	11.8	48.9	956.2	672.8	307.7	9.6	1.000273
[redacted]	804.4	21.8	11.2	51.2	944.2	671.1	305.9	10.1	1.000269
[redacted]	790.5	20.4	10.6	53.4	932.5	669.5	292.8	8.7	1.000264
[redacted]	776.7	19.0	9.9	55.7	920.7	667.9	278.4	7.7	1.000260
[redacted]	762.9	17.6	9.2	58.0	908.8	666.2	259.2	6.7	1.000255
[redacted]	749.4	16.2	8.5	60.3	897.1	664.6	236.6	6.6	1.000250
[redacted]	736.1	14.9	7.8	62.6	885.5	662.9	228.6	7.6	1.000246
[redacted]	723.0	13.5	7.0	64.9	874.1	661.3	222.5	8.7	1.000241
[redacted]	710.1	12.1	6.2	67.2	862.9	659.6	218.5	9.4	1.000237
[redacted]	697.5	10.8	5.5	69.8	851.5	658.1	215.2	10.0	1.000232
[redacted]	684.9	9.7	5.2	73.6	839.4	656.8	210.6	10.4	1.000229
[redacted]	672.9	8.3	4.6	77.5	828.4	655.1	204.1	10.6	1.000225
[redacted]	660.2	6.9	3.9	81.4	817.5	653.4			1.000221
[redacted]	648.1	5.9	2.7	79.7	805.6	652.2			1.000216

STATION ALTITUDE 4173.44 FEET MSL
17 SEP. 82
ASCENSION NO. 9 1636 MDT

MANDATORY LEVELS
2600320009
LANA

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

TABLE 18

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	4918.	26.2	13.0	44.	313.0	6.9
800.0	6659.	21.3	11.0	52.	300.6	9.6
750.0	8480.	16.3	8.6	60.	237.2	6.6
700.0	10392.	11.0	5.5	69.	215.8	9.9
650.0	12407.	6.0	2.9	81.		